

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - January 1997

Field: GHI

Hour Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	5	38	136	224	338	260	149	149	80	15	0	0	0	0	0	0	0	1394
2	0	0	0	0	0	0	0	4	39	65	105	150	161	128	73	115	58	4	0	0	0	0	0	0	903
3	0	0	0	0	0	0	0	8	53	107	161	215	218	321	406	295	80	4	0	0	0	0	0	0	1868
4	0	0	0	0	0	0	0	4	44	193	364	460	220	373	418	181	41	9	0	0	0	0	0	0	2307
5	0	0	0	0	0	0	0	6	134	115	134	192	229	99	169	98	47	5	0	0	0	0	0	0	1229
6	0	0	0	0	0	0	0	9	66	78	210	308	490	391	280	225	88	10	0	0	0	0	0	0	2155
7	0	0	0	0	0	0	0	5	61	81	87	147	189	60	43	37	18	0	0	0	0	0	0	0	728
8	0	0	0	0	0	0	0	8	54	59	90	91	56	64	72	51	17	0	0	0	0	0	0	0	563
9	0	0	0	0	0	0	0	5	40	46	41	73	73	59	71	41	14	1	0	0	0	0	0	0	464
10	0	0	0	0	0	0	0	6	151	306	396	364	383	458	296	183	119	14	0	0	0	0	0	0	2677
11	0	0	0	0	0	0	0	13	144	330	489	596	637	605	505	350	162	16	0	0	0	0	0	0	3848
12	0	0	0	0	0	0	0	12	147	333	484	588	623	584	477	328	148	15	0	0	0	0	0	0	3738
13	0	0	0	0	0	0	0	20	114	253	400	430	562	467	373	234	110	17	0	0	0	0	0	0	2980
14	0	0	0	0	0	0	0	12	141	326	480	584	625	595	496	345	162	17	0	0	0	0	0	0	3783
15	0	0	0	0	0	0	0	11	145	263	362	489	449	398	404	219	75	7	0	0	0	0	0	0	2822
16	0	0	0	0	0	0	0	4	103	237	498	607	646	616	518	367	176	23	0	0	0	0	0	0	3795
17	0	0	0	0	0	0	0	16	161	359	520	630	673	642	540	388	191	25	0	0	0	0	0	0	4145
18	0	0	0	0	0	0	0	16	160	358	525	638	681	649	547	364	163	29	0	0	0	0	0	0	4129
19	0	0	0	0	0	0	0	7	80	241	445	285	281	516	513	372	180	23	0	0	0	0	0	0	2943
20	0	0	0	0	0	0	0	17	159	351	511	617	658	617	498	341	168	26	0	0	0	0	0	0	3962
21	0	0	0	0	0	0	0	16	149	330	486	600	644	618	523	370	183	26	0	0	0	0	0	0	3945
22	0	0	0	0	0	0	0	16	84	181	229	582	566	485	457	305	132	19	0	0	0	0	0	0	3056
23	0	0	0	0	0	0	0	16	124	282	379	349	389	397	370	227	132	21	0	0	0	0	0	0	2686
24	0	0	0	0	0	0	0	19	124	277	404	519	592	563	434	266	128	1	0	0	0	0	0	0	3326
25	0	0	0	0	0	0	0	11	47	45	112	163	169	178	281	297	218	36	0	0	0	0	0	0	1556
26	0	0	0	0	0	0	0	21	172	374	538	655	665	670	516	399	171	27	0	0	0	0	0	0	4210
27	0	0	0	0	0	0	0	15	142	328	485	418	669	631	538	361	139	33	0	0	0	0	0	0	3760
28	0	0	0	0	0	0	0	8	130	210	345	525	471	613	354	339	190	16	0	0	0	0	0	0	3200
29	0	0	0	0	0	0	0	3	30	72	124	181	216	174	97	79	62	12	0	0	0	0	0	0	1051
30	0	0	0	0	0	0	0	5	39	127	153	196	190	175	188	134	43	8	0	0	0	0	0	0	1257
31	0	0	0	0	0	0	0	12	113	299	535	622	692	655	571	430	223	58	0	0	0	0	0	0	4212
Avg	0	0	0	0	0	0	0	11	103	218	333	407	431	418	361	252	118	16	0	0	0	0	0	0	2667
S/D	0	0	0	0	0	0	0	5	47	110	165	190	212	212	169	120	64	13	0	0	0	0	0	0	1224
S/A	0	0	0	0	0	0	0	0.5	0.45	0.51	0.5	0.47	0.49	0.51	0.47	0.47	0.54	0.78	0	0	0	0	0	0	0.46
Min	0	0	0	0	0	0	0	3	30	45	41	73	56	59	43	37	14	0	0	0	0	0	0	0	464
Max	0	0	0	0	0	0	0	21	172	374	538	655	692	670	571	430	223	58	0	0	0	0	0	0	4212

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3835 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station: SS
Latitude: 32.03° N
Longitude: 81.07° W
Elevation: 11 Meters AMSL
Time Zone: -5

Instrument: PSP
Calibration Constant: 9.16 uV/Wm-2
Serial Number: 18078F3
Calibration Date: 9/13/96

**Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - January 1997**

Field: DNI

Hour Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	6	12	28	27	36	35	16	19	14	4	0	0	0	0	0	0	0	196
2	0	0	0	0	0	0	0	9	16	15	17	20	20	16	11	26	21	8	0	0	0	0	0	0	179
3	0	0	0	0	0	0	0	2	22	22	24	26	22	147	639	584	133	2	0	0	0	0	0	0	1624
4	0	0	0	0	0	0	0	9	17	182	337	452	23	349	703	149	9	24	0	0	0	0	0	0	2256
5	0	0	0	0	0	0	0	14	74	21	18	16	30	11	24	14	11	5	0	0	0	0	0	0	238
6	0	0	0	0	0	0	0	35	23	19	31	70	272	201	62	129	19	22	0	0	0	0	0	0	882
7	0	0	0	0	0	0	0	7	22	14	12	17	22	5	6	6	6	0	0	0	0	0	0	0	118
8	0	0	0	0	0	0	0	41	17	13	12	11	7	8	12	10	5	0	0	0	0	0	0	0	135
9	0	0	0	0	0	0	0	17	13	9	4	10	9	7	10	7	4	2	0	0	0	0	0	0	91
10	0	0	0	0	0	0	0	19	570	672	488	179	244	447	223	61	189	63	0	0	0	0	0	0	3154
11	0	0	0	0	0	0	0	86	549	793	913	978	1000	991	949	858	651	136	0	0	0	0	0	0	7904
12	0	0	0	0	0	0	0	95	565	800	899	952	964	922	843	740	541	123	0	0	0	0	0	0	7444
13	0	0	0	0	0	0	0	129	144	210	491	351	659	452	289	193	71	23	0	0	0	0	0	0	3013
14	0	0	0	0	0	0	0	72	507	762	871	929	954	945	899	807	602	117	0	0	0	0	0	0	7466
15	0	0	0	0	0	0	0	63	505	395	300	484	314	163	325	97	26	5	0	0	0	0	0	0	2676
16	0	0	0	0	0	0	0	5	192	274	903	975	992	974	926	837	607	134	0	0	0	0	0	0	6818
17	0	0	0	0	0	0	0	125	626	861	952	1007	1029	1022	977	887	701	156	0	0	0	0	0	0	8343
18	0	0	0	0	0	0	0	109	590	838	948	1009	1032	1021	978	744	366	183	0	0	0	0	0	0	7818
19	0	0	0	0	0	0	0	8	29	147	334	31	29	628	886	815	617	143	0	0	0	0	0	0	3667
20	0	0	0	0	0	0	0	126	600	823	926	974	991	932	786	646	490	142	0	0	0	0	0	0	7437
21	0	0	0	0	0	0	0	102	518	747	853	925	953	950	912	813	597	151	0	0	0	0	0	0	7520
22	0	0	0	0	0	0	0	39	96	70	94	825	650	464	567	494	226	20	0	0	0	0	0	0	3544
23	0	0	0	0	0	0	0	17	76	252	382	116	178	254	173	76	81	24	0	0	0	0	0	0	1631
24	0	0	0	0	0	0	0	52	217	423	480	536	658	635	523	333	192	0	0	0	0	0	0	0	4049
25	0	0	0	0	0	0	0	8	18	10	17	23	22	25	64	300	667	234	0	0	0	0	0	0	1387
26	0	0	0	0	0	0	0	155	636	844	942	975	896	957	723	674	359	88	0	0	0	0	0	0	7249
27	0	0	0	0	0	0	0	62	332	596	677	292	640	861	854	694	261	86	0	0	0	0	0	0	5354
28	0	0	0	0	0	0	0	23	148	86	200	592	350	538	173	336	330	14	0	0	0	0	0	0	2789
29	0	0	0	0	0	0	0	2	10	15	19	22	28	21	14	16	18	33	0	0	0	0	0	0	198
30	0	0	0	0	0	0	0	8	15	27	23	26	24	23	28	25	13	10	0	0	0	0	0	0	222
31	0	0	0	0	0	0	0	8	87	459	786	833	924	848	845	811	640	264	0	0	0	0	0	0	6505
Avg	0	0	0	0	0	0	0	47	234	336	419	442	451	479	466	393	273	71	0	0	0	0	0	0	3610
S D	0	0	0	0	0	0	0	46	241	328	375	407	413	393	380	337	258	75	0	0	0	0	0	0	2962
S/A	0	0	0	0	0	0	0	0.98	1.03	0.98	0.9	0.92	0.92	0.82	0.81	0.86	0.94	1.06	0	0	0	0	0	0	0.82
Min	0	0	0	0	0	0	0	2	10	9	4	10	7	5	6	6	4	0	0	0	0	0	0	0	91
Max	0	0	0	0	0	0	0	155	636	861	952	1009	1032	1022	978	887	701	264	0	0	0	0	0	0	8343

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3835 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station: SS
Latitude: 32.03° N
Longitude: 81.07° W
Elevation: 11 Meters AMSL
Time Zone: -5

Instrument: Estimated DNI
Calibration Constant: 0.00
Serial Number: XXXXXXXX
Calibration Date: 1/1/1997

Diffuse Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - January 1997

Field: DHI

Hour Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	5	36	126	211	318	240	141	140	75	14	0	0	0	0	0	0	0	1307
2	0	0	0	0	0	0	0	4	36	60	97	139	150	120	68	107	54	4	0	0	0	0	0	0	837
3	0	0	0	0	0	0	0	8	49	99	149	201	206	241	111	94	54	4	0	0	0	0	0	0	1217
4	0	0	0	0	0	0	0	4	40	124	199	215	207	184	88	124	39	8	0	0	0	0	0	0	1233
5	0	0	0	0	0	0	0	6	108	108	125	183	212	92	157	93	46	5	0	0	0	0	0	0	1135
6	0	0	0	0	0	0	0	8	61	72	195	270	333	282	251	181	84	10	0	0	0	0	0	0	1746
7	0	0	0	0	0	0	0	5	57	76	81	138	177	56	40	34	17	0	0	0	0	0	0	0	682
8	0	0	0	0	0	0	0	8	51	55	84	84	52	60	67	48	16	0	0	0	0	0	0	0	525
9	0	0	0	0	0	0	0	4	38	43	39	68	68	55	66	38	13	1	0	0	0	0	0	0	433
10	0	0	0	0	0	0	0	4	38	73	165	264	241	213	183	161	87	9	0	0	0	0	0	0	1438
11	0	0	0	0	0	0	0	7	34	48	51	50	50	48	45	39	28	6	0	0	0	0	0	0	407
12	0	0	0	0	0	0	0	6	34	47	52	54	55	64	65	58	34	7	0	0	0	0	0	0	477
13	0	0	0	0	0	0	0	12	93	175	159	232	173	210	232	164	94	15	0	0	0	0	0	0	1558
14	0	0	0	0	0	0	0	6	38	52	58	60	59	57	53	46	33	7	0	0	0	0	0	0	468
15	0	0	0	0	0	0	0	7	43	127	212	215	262	305	241	182	69	7	0	0	0	0	0	0	1671
16	0	0	0	0	0	0	0	4	62	136	57	53	53	56	56	51	42	11	0	0	0	0	0	0	580
17	0	0	0	0	0	0	0	8	33	47	54	55	55	52	50	50	35	12	0	0	0	0	0	0	451
18	0	0	0	0	0	0	0	8	38	53	59	59	58	57	54	73	77	12	0	0	0	0	0	0	548
19	0	0	0	0	0	0	0	7	74	181	287	267	263	152	64	56	38	9	0	0	0	0	0	0	1399
20	0	0	0	0	0	0	0	8	34	48	52	54	54	70	95	89	54	13	0	0	0	0	0	0	570
21	0	0	0	0	0	0	0	10	40	53	61	63	61	58	54	51	41	11	0	0	0	0	0	0	502
22	0	0	0	0	0	0	0	14	68	154	180	100	166	212	161	107	75	18	0	0	0	0	0	0	1256
23	0	0	0	0	0	0	0	16	106	190	190	282	278	247	281	196	114	19	0	0	0	0	0	0	1919
24	0	0	0	0	0	0	0	15	78	116	163	201	183	182	155	134	77	1	0	0	0	0	0	0	1306
25	0	0	0	0	0	0	0	10	44	41	103	149	155	163	248	184	53	11	0	0	0	0	0	0	1163
26	0	0	0	0	0	0	0	9	34	54	57	75	102	90	133	118	78	18	0	0	0	0	0	0	768
27	0	0	0	0	0	0	0	12	66	100	140	246	265	106	81	71	65	25	0	0	0	0	0	0	1174
28	0	0	0	0	0	0	0	7	90	174	243	170	248	284	259	206	97	15	0	0	0	0	0	0	1794
29	0	0	0	0	0	0	0	3	28	66	115	168	198	161	90	72	57	11	0	0	0	0	0	0	969
30	0	0	0	0	0	0	0	4	35	116	140	180	174	161	173	124	39	8	0	0	0	0	0	0	1154
31	0	0	0	0	0	0	0	12	91	117	120	115	96	125	105	84	48	27	0	0	0	0	0	0	941
Avg	0	0	0	0	0	0	0	8	54	95	126	153	158	139	125	100	54	10	0	0	0	0	0	0	1020
S/D	0	0	0	0	0	0	0	3	23	46	66	82	84	79	74	52	26	7	0	0	0	0	0	0	452
S/A	0	0	0	0	0	0	0	0.43	0.43	0.49	0.52	0.54	0.53	0.57	0.59	0.52	0.48	0.68	0	0	0	0	0	0	0.44
Min	0	0	0	0	0	0	0	3	28	41	39	50	50	48	40	34	13	0	0	0	0	0	0	0	407
Max	0	0	0	0	0	0	0	16	108	190	287	318	333	305	281	206	114	27	0	0	0	0	0	0	1919

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3835 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station: SS
Latitude: 32.03° N
Longitude: 81.07° W
Elevation: 11 Meters AMSL
Time Zone: -5

Instrument: PSP
Calibration Constant: 8.29 uV/Wm-2
Serial Number: 18040F3
Calibration Date: 9/13/96